



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 12-Sep-2024

Revision Number 3.07

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Phosalone Standard
Product Code	167-09383
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

# **Section 2: HAZARDS IDENTIFICATION**

#### **GHS** classification

Classification of the substance or mixture

Acute toxicity - OralCategory 3Acute toxicity - DermalCategory 3Acute toxicity - Inhalation (Dusts/Mists)Category 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2Reproductive ToxicityCategory 2Specific target organ toxicity (single exposure)Category 1

Category 1 nervous system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 nervous system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

#### **Pictograms**



### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H361 - Suspected of damaging fertility or the unborn child

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

H370 - Causes damage to the following organs: nervous system

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system

### **Precautionary statements-(Prevention)**

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- · Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- · Avoid release to the environment

#### Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Rinse mouth
- Collect spillage

#### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- · Store locked up

#### Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C12H15CINO4PS2

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Phosalone	98.0	367.81	N/A	8-(7)-170,8-(7)-490	2310-17-0

Note on ISHL No.: \* in the table means announced chemical substances.

# **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

## Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

# Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

## Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

## Protection of first-aiders

Use personal protective equipment as required.

# **Section 5: FIRE FIGHTING MEASURES**

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

#### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## Special extinguishing method

No information available

#### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## Section 6: ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

## Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

#### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

#### **Handling**

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Storage

#### Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas. Store locked up.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly. Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask ( JIS T 8151 )

Hand protection chemical protective gloves (JIS T 8116)

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

**General hygiene considerations** 

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

Colorwhite - nearly whiteAppearancecrystals - powderOdorno data available

Melting point/freezing point 48 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
pecomposition temperature:
no data available
no data available
no data available
proper viscosity
no data available
no data available
proper viscosity

**Dynamic viscosity** no data available

Solubilities acetone : Very soluble. water : practically insoluble, or insoluble

n-Octanol/water partition coefficient:(log Pow) 4.3

Vapour pressure no data available

Specific Gravity / Relative density 1.39

Vapour densityno data availableParticle characteristicsno data available

# Section 10: STABILITY AND REACTIVITY

### Stability

Reactivity no data available
Chemical stability May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx), Phosphorus oxide, Halides

## Section 11: TOXICOLOGICAL INFORMATION

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosalone	85 mg/kg (Rat)	> 1000 mg/kg (Rabbit)	N/A
		390 mg/kg (Rat)	

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
1 1100010110			Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	•	•	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Phosalone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Phosalone	Based on the NITE GHS classification results.	
Sorious ava damaga/irritation		

#### Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Phosalone	Based on the NITE GHS classification results.

### Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Phosalone	Based on the NITE GHS classification results.

#### Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Phosalone	Based on the NITE GHS classification results.

#### Carcinogenicity

Chemical Name	Carcinogenicity source information
Phosalone	Based on the NITE GHS classification results.

#### Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Phosalone	Based on the NITE GHS classification results.
CTOT single expecting	

#### STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Phosalone	Based on the NITE GHS classification results.	

## **STOT-repeated exposure**

Chemical Name	Chemical Name STOT -repeated exposure- source information	
Phosalone	Based on the NITE GHS classification results.	

## **Aspiration hazard**

Aspiration nazaru				
Chemical Name	Aspiration Hazard source information			
Phosalone	Based on the NITE GHS classification results.			

# **Section 12: ECOLOGICAL INFORMATION**

\*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

# **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Phosalone	N/A	LC50 : Lepomis macrochirus	N/A
		100 ug/L 96h	

## Other data

	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
-		aquatic environment source information	naquatic environment source information

Based on the NITE GHS classification Based on the NITE GHS classification Phosalone results results

Persistence and degradability No information available **Bioaccumulative potential** No information available No information available Mobility in soil No information available Hazard to the ozone layer

# **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **Section 14: TRANSPORT INFORMATION**

ADR/RID

UN2783 **UN** number

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosalone)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant Yes

**IMDG** 

**UN** number UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosalone)

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**UN** number UN2783

Proper shipping name: Organophosphorus pesticide, solid, toxic (Phosalone)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

## Section 15: REGULATORY INFORMATION

Japanese regulations

**Fire Service Act** Not applicable

**Poisonous and Deleterious** Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Industrial Safety and Health Act ( 【2025.4.1~】 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

2025~) 【2025.4.1~】Notifiable Substances (Law Art.57-2)

Regulations for the carriage and storage of dangerous

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Regarding Transport by Ship and Storage, Attached Table 1) goods in ship

**Civil Aeronautics Law** Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention Marine pollutants (P and PP substances)

Law

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Phosalone 2310-17-0 ( 98.0 )	Applicable	•	•

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip\_search/srhInput

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

#### **Disclaimer**

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**